

Conductors

C6029



Pb and Cd Free Platinum/Gold Conductor

Description:

C6029 is a lead, cadmium and nickel free Au/Pt/Pd conductor which exhibits excellent solderability, solder leach resistance and adhesion on alumina and Heraeus IP9217, Pb free dielectric. Excellent fired density makes C6029 a good candidate for high reliability applications that require RoHS compliant materials.

● **Key Benefits:**

- RoHS compliant; Pb, Cd and Ni free
- Excellent solderability on alumina and dielectric
- Refire stability

● **Typical Properties:**

Resistivity:

≤ 95 milliohms/sq at 12 microns
fired film thickness

Adhesion:

80x80 mil pad
SAC 305, 255°C

<u>IP9217</u>	<u>96%Al₂O₃</u>
≥ 5 lbs	≥ 5 lbs

Solderability:

SAC 305, 255°C
5 sec, RMA flux

<u>IP9217</u>	<u>96%Al₂O₃</u>
≥ 95%	≥ 95%

Leach Resistance:

5 sec, RMA flux
SAC 305, 255°C

<u># of Dips</u>	<u>% Line Lost</u>
5	≤ 15%

Viscosity:

200-280 Kcps, Brookfield HBT,
SC4-14 spindle and 6R utility cup@ 10 rpm, 25°C.

Solids:

85.0±1.0%

● **Recommend Processing Guidelines:**

Printing:

280 stainless steel mesh screen
0.5 mil emulsion
1.1 mil wire

Drying:

Dry at 150°C for 10 minutes

Firing:

850°C peak temperature
Dwell time of 8-12 minutes

Fine Line Resolution:

8 mils (200 microns)

Thickness:

Wet: 35-39 microns
Dried: 21-25 microns
Fired: 12-16 microns

Coverage:

74 cm²/g

Thinner:

RV-372 (Terpineol)

Warranty:

Material guaranteed to meet specifications for 6 months from date of shipment.

Storage:

Store in a dry location at 5°C-25°C.
DO NOT REFRIGERATE.
Allow paste to come to room temperature prior to opening.
Spatulate well before using.

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The descriptions and engineering data shown here have been compiled by Heraeus using commonly-accepted procedures, in conjunction with modern testing equipment, and have been compiled as according to the latest factual knowledge in our possession. The information was up-to date on the date this document was printed (latest versions can always be supplied upon request). Although the data is considered accurate, we cannot guarantee accuracy, the results obtained from its use, or any patent infringement resulting from its use (unless this is contractually and explicitly agreed in writing, in advance). The data is supplied on the condition that the user shall conduct tests to determine materials suitability for a particular application.

Americas
Heraeus Incorporated
Thick Film Materials Division
24 Union Hill Road
West Conshohocken, PA 19428
USA
Phone: +1 (610) 825-6050
E-Mail: techservice.hcd@heraeus.com
Internet: www.thickfilm.net

Europe
W.C. Heraeus GmbH
Thick Film Materials Division
Heraeusstr. 12-14
63450 Hanau
Germany
Phone: +49 (6181) 35-5466
E-mail: th-info@heraeus.com
Internet: www.heraeus-th.com

Asia
Heraeus Materials Technology
Shanghai Ltd
No. 1 Guang Zhong Road
Zhuanqiao Town, Minhang District
Shanghai 201108
People's Republic of China
Phone: + 86 (21) 6442-6838
E-Mail: th.hmts@heraeus.com
Internet: www.heraeus-th.com